

In the claims:

1. (Currently amended) A mono-layer or multi-layer film, sheet, or coating wherein at least one layer displays a surface microstructure, which layer comprises a thermoplastic polymeric material selected from the group consisting of

- a biodegradable polymer,
- a polyvinyl chloride, and
- a polyolefin interpolymer comprising
 - i) polymer units derived from at least one of ethylene and/or an alpha-olefin monomer; and
 - ii) polymer units derived from one or more vinyl or vinylidene aromatic monomers and/or one or more sterically hindered aliphatic or cycloaliphatic vinyl or vinylidene monomer, and
 - iii) optionally polymer units derived from one or more ethylenically unsaturated polymerizable monomer(s) other than those derived from i) and ii),

and which layer is characterized by substantially solid fibril-like fringes.

Claims 2-23 (canceled).

24. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the a biodegradable polymer is a poly(lactide).

25. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the at least one layer is a foamed layer.

26. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polymeric material is the biodegradable polymer, and wherein the biodegradable polymeric material is a poly(lactide).

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27. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polymeric material is the polyvinyl chloride.

28. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polymeric material is the polyolefin interpolymer.

29. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the substantially solid fibril-like fringes have a density of at least 1000 per square centimeter.

30. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polyolefin material is the thermoplastic polyolefin interpolymer, and wherein the thermoplastic polyolefin interpolymer is an ethylene/styrene interpolymer.

31. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polyolefin material is the thermoplastic polyolefin interpolymer, and wherein the thermoplastic polyolefin interpolymer includes the polymer units derived from one or more ethylenically unsaturated polymerizable monomer(s) other than those derived from i) and ii),

32. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polyolefin material is the thermoplastic polyolefin interpolymer, and wherein the polymer units derived from at least one of ethylene and/or an alpha-olefin monomer is derived from ethylene.

33. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polyolefin material is the thermoplastic

polyolefin interpolymers, and wherein the interpolymers are interpolymers of ethylene and styrene or of ethylene, styrene, and at least one alpha-olefin containing 3 to 8 carbon atoms.

34. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polyolefin material is the thermoplastic polyolefin interpolymers, and wherein the interpolymers has a density of at least 0.930 g/cm³.

35. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 further comprising a plasticizer, and wherein the polymer is a poly(lactide).

36. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the thermoplastic polyolefin material is the thermoplastic polyolefin interpolymers and wherein the thermoplastic polyolefin interpolymers includes crosslinking.

37. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the substantially solid fibril-like fringes have a density of at least 2000 per square centimeter.

38. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the substantially solid fibril-like fringes have a density of at least 4000 per square centimeter.

39. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the substantially solid fibril-like fringes have a density of from about 4000 to about 15000 per square centimeter.

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40. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the fringes have a minimum height of at least about 40 micrometers.

41. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the fringes have a minimum height of at least about 80 micrometers.

42. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the fringes have a minimum height of at least about 120 micrometers.

43. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the fringes have height of less than 600 micrometers.

44. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the fringes have height of about 200 to about 400 micrometers.

45. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 which is a film.

46. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 which is a sheet.

47. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 which is a coating.

48. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein at least one layer has been orientated.

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49. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 in which the layer has been cured, irradiated, or crosslinked.

50. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein at least one layer is elastic.

51. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 which has been subjected to corona treatment.

52. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the surface microstructure is on two sides.

53. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the surface microstructure covers a part of the surface of the layer.

54. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 wherein the surface microstructure covers all of the surface of the layer.

55. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 in the form of a mono-layer.

56. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 in the form of a multi-layer.

57. (Previously presented) The mono-layer or multi-layer film, sheet, or coating according to claim 1 in the form of a three-layer film.